Appl. No. 10/517,244 Reply to Office Action of January 18, 2006

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

Claims 1-26 (canceled)

Claim 27 (currently amended): A hydrogen occluding material in a form of a fine powder capable of hydrogenation and/or dehydrogenation of hydrogen molecules or hydrogen atoms at about 200°C or below and under adequate control of pressure, said hydrogen occluding material comprising:

an aluminum hydride having a formula (1)

 $AlH_x$ 

... (1)

where  $0 \le x \le 3$ ; and

a dopant functioning as a catalyst, wherein the dopant includes at least one species selected from the group consisting of transition metals belonging to groups III to V of the periodic table and including at least one of chromium, iron, nickel, and alkali metals, and compounds thereof, and wherein an amount of the dopant ranges from about 0.2 mol% to about 10 mol% of an amount of the aluminum hydride.

Appl. No. 10/517,244 Reply to Office Action of January 18, 2006

Claim 28 (currently amended): A method for using a hydrogen occluding material in a form of a fine powder, the method comprising hydrogenating and/or dehydrogenating hydrogen molecules or atoms at about 200°C or below and under adequate control of pressure a hydrogen occluding material composed of:

an aluminum hydride having a formula (1)

 $A1H_x$  ... (1)

where  $0 \le x \le 3$ ; and

a dopant functioning as a catalyst, wherein the dopant includes at least one species selected from the group consisting of transition metals belonging to groups III to V of the periodic table and including at least one of chromium, iron, nickel, and alkali metals, and compounds thereof, and wherein an amount of the dopant ranges from about 0.2 mol% to about 10 mol% of an amount of the aluminum hydride.

Claim 29 (new): The hydrogen occluding material according to claim 27, wherein the dopant includes at least one species selected from the group consisting of transition metals belonging to the groups III to V of the periodic table, and at least one species selected from the group consisting of chromium, iron, nickel, and alkali metals, and compounds thereof.

Claim 30 (new): The hydrogen occluding material according to claim 27, wherein the dopant includes at least one species selected from the group consisting of transition metals belonging to the groups III to V of the periodic table, and at least one species selected from the group consisting of alkali metals, and compounds thereof.

Claim 31 (new): The method for using a hydrogen occluding material according to claim 28, wherein the dopant includes at least one species selected from the group consisting of transition metals belonging to the groups III to V of the periodic table, and at least one species selected from the group consisting of chromium, iron, nickel, and alkali metals, and compounds thereof.

Appl. No. 10/517,244 Reply to Office Action of January 18, 2006

Claim 32 (new): The method\*for\*using a hydrogen occluding material according to claim 28, wherein the dopant includes at least one species selected from the group consisting of transition metals belonging to the groups III to V of the periodic table, and at least one species selected from the group consisting of alkali metals, and compounds thereof.